



## Dr. R. K. Pateriya

### Professor

Department of Computer Science & Engineering

Maulana Azad National Institute of Technology,  
Bhopal-462003, India

| Contact Details   |                                                                                                                   |
|-------------------|-------------------------------------------------------------------------------------------------------------------|
| Address           | Professor, CSE Department, MANIT Bhopal                                                                           |
| Email Id          | pateriyark@manit.ac.in                                                                                            |
| Phone No.         | +91-755-405-1301 (O), +919425027381 (M)                                                                           |
| Google Scholar ID | zOByIfAAAAAJ&hl=en                                                                                                |
| Scopus Author ID  | 48761729000                                                                                                       |
| Linked In         | <a href="https://www.linkedin.com/in/rk-pateriya-544a1067/">https://www.linkedin.com/in/rk-pateriya-544a1067/</a> |
| ORCID             | <a href="https://orcid.org/0000-0001-7163-0024">https://orcid.org/0000-0001-7163-0024</a>                         |
| Vidwan ID         | 61706                                                                                                             |

| Subjects Taught |                                                                                                                                                                                                                                                                                               |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| U.G             | Microprocessors, Data Structures, Operating Systems, Optimization Techniques, Compiler Design, Data Mining & warehousing, Machine Learning, Data Science, Computer Architecture, Data Base Management System, Analysis and Design of Algorithms, Cloud Computing, Computer & Network Security |
| P.G             | Machine Learning, Optimization Techniques, Computer & Network Security, E-commerce and E-governance, Randomized Algorithms                                                                                                                                                                    |

| Research Interest                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>The areas of my research interest include:</p> <ul style="list-style-type: none"><li>• Cloud Computing</li><li>• Information Security</li><li>• Network Security</li><li>• Information Retrieval</li></ul> |

**Project/ Consultancy undertaken:**

- Chief Investigator of Information Security Education and Awareness (ISEA) Phase-I & Phase-II, Project, MHRD Govt of India.
- Consultancy project on Acceptance testing in HMS for Bhopal Memorial Hospital & research Centre (BMHRC)

**Qualification**

|        |                                |
|--------|--------------------------------|
| B.E.   | Computer Technology            |
| M Tech | Computer Science & Engineering |
| PhD    | Computer Science & Engineering |

**Teaching Experience**

| S.No | Designation                 | Duration                       | Employer     |
|------|-----------------------------|--------------------------------|--------------|
| 1    | Professor                   | March 24, 2020 to Till Date    | MANIT Bhopal |
| 2    | Associate Professor         | Dec 1, 2007 to March 23, 2020  | MANIT Bhopal |
| 3    | Assistant Professor (V Pay) | Dec 1, 2004 to Nov 30, 2007    | MANIT Bhopal |
| 4    | Lecturer                    | March 29, 1993 to Nov 30, 2004 | MANIT Bhopal |

**Outreach Activities**

1. Member, Board of Governors, IIIT Pune.
2. Expert Member in Selection committee for faculty recruitment in SVNIT Surat.
3. Expert Member in Selection committee for faculty recruitment in NIT Raipur.
4. Expert Member in Selection committee for faculty recruitment in UPPSC Allahabad.
5. Expert Member in Selection committee for faculty recruitment in BPSC Patna.
6. Subject Expert UPSC New Delhi.

7. Expert Member in Selection committee for faculty recruitment in Jammu and Kashmir Public Service Commission (JKPSC) Jammu.
8. Expert Member in Research Advisory Committee, NSUT New Delhi.
9. VC nominee of Utrakhand Technical University in Selection committee for faculty recruitment
10. Expert Member, Board of Studies, IT Department NSUT New Delhi.
11. Expert Member, Board of Studies, MCA Department NIT Raipur.
12. Expert Member, Board of Studies, CSE Department VIT Bhopal.
13. Expert Member, Selection committee, MAP\_IT (Madhya Pradesh Agency for Promotion of Information Technology) State IT Center, Bhopal (M.P).
14. Best Paper award finalist in IEEE 7th International conference on computer Science & Education (ICCSE-2012) organized by IEEE computer society Victorian Chapter, Melbourne Australia
15. Member Tendering Committee Loksabha Election-2014
16. Conducted webcasting for Loksabha Election-2014
17. Conducted Vittiya Saksharta Abhiyan MHRD Govt of India
18. MOU with ESIEE Paris for Student Faculty and Research Exchange
19. Session Chair in IEEE International Conference on Communication System and Network Technologies(CSNT-2014) 07-09 April 2014 Organized by NITTR Bhopal
20. Session Chair in International Conference on Advanced Network Technologies and Intelligent Computing(ANTIC-2021) organized by Department of Computer Science, Institute of Science, Banaras Hindu University Varanasi, India, December 17-18, 2021
21. Session Chair in IEEE International Conference on Software and Computing Technology (ICSCT-2010) in Kunming China.
22. Delegate in Indo-Australian conference organized by IIT Chennai and Australian High Commission
23. Delivered More than 25 Expert Lecture at various organizations like Bank of India Training Center, NIT Utrakhand, IIITM Gwalior and other reputed Institutes.
24. Reviewer, 4th IEEE International conference on computer science and Information Technology (ICCSIT-2011), Chengdu China

25. Keynote Speaker, Two days National Conference on “Cloud Computing : Present Scenario and Future Prospectus” (CCPSFP-2014), JNCT Bhopal.
26. Keynote Speaker, on Cyber Security and Insider Threats at Sagar Group of Science and Technology Bhopal.
27. Program committee member , 3rd FTRA International Conference on Computer Science and its Applications (CSA-11), December 12-15, 2011, Jeju, Korea
28. Expert Committee Member for designing syllabus at Atal Bihari Vajpayee Hindi Vishvidyalaya. Bhopal.

| Institute Level Administration |                                                                                                                                  |            |            |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------|------------|
|                                | Position                                                                                                                         | Duration   |            |
|                                |                                                                                                                                  | From       | To         |
| 1.                             | Head of the Department                                                                                                           | 23-09-15   | 24-09-17   |
| 2.                             | Chief Warden                                                                                                                     | 29-10-2005 | 06-03-2009 |
| 3.                             | Associate Dean (Examinations)                                                                                                    | 19-04-2018 | 16-10-2018 |
| 4.                             | Conducted activities for execution of the project under “ Visvesvaraya PhD scheme for Electronics and IT” of DEITY Govt of India | 05-07-2016 | —          |
| 5.                             | Member, Review committee for pending court cases                                                                                 | 18-03-2017 | —          |
| 6.                             | Member, Website development & maintenance committee                                                                              | 29-01-09   | —          |
| 7.                             | Member, Institute Website Revamping Committee                                                                                    | 16-11-16   | —          |
| 8.                             | Member Reception Committee 12th Convocation 2016                                                                                 | 06-04-16   | —          |
| 9.                             | Member, Steering Committee RISE-2017                                                                                             | 27-10-17   | —          |
| 10.                            | Member, Rajbhasha Hindi Samiti                                                                                                   | 30-08-2016 | —          |
| 11.                            | Member, AIEEE Help Centre committee                                                                                              | 08-06-2010 | —          |
| 12.                            | Faculty selection committee under TEQIP-III                                                                                      | 13-12-2017 | -----      |
| 13.                            | Member, Selection committee of temporary faculty                                                                                 | 08-12-17   | 10-12-2017 |
| 14.                            | Member, TEQIP Institutional procurement committee                                                                                | 06-06-2005 | -----      |
| 15.                            | Chairman Exam Module Integration committee                                                                                       | 01-08-18   | -----      |
| 16.                            | Chairman Institute Networking Equipment procurement Committee                                                                    | Nov 2016   | Sep 2017   |
| 17.                            | Chairman Media Coverage Committee                                                                                                | 11-03-10   | —          |
| 18.                            | Chairman Institute campus agreement with Microsoft committee                                                                     | 31-12-2015 | —          |

|     |                                                                                              |          |   |
|-----|----------------------------------------------------------------------------------------------|----------|---|
| 19. | Chairman, Surveillance System installation committee                                         | 11-02-09 | — |
| 20. | Convener Enquiry Committee                                                                   | 23-05-17 | — |
| 21. | Senate representative Member in contract faculty interview committee of Chemistry department |          |   |
| 22. | Member Contract faculty interview for CSE department                                         |          |   |
| 23. | Committee member to evaluate JRF for SRF                                                     |          |   |

| Book Chapters |                                                                                                                                                                         |                                                                                  |                     |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------|
| S.No.         | Title                                                                                                                                                                   | Name of Publisher with ISSN/ISBN No.                                             | Year of Publication |
| 1.            | Book Chapter:<br>Secure Framework for E-commerce Applications in Cloud Environment in<br>Improving E-Commerce Web Applications through Business Intelligence Techniques | IGI Global.<br>Main Office 701<br>E. Chocolate<br>Ave. Hershey,<br>PA 17033, USA | 2018                |
| 2.            | Book Chapter:<br>Collaborative Filtering Techniques in Recommendation Systems in<br>Data, Engineering and Applications<br>Volume 1                                      | Springer Nature<br>Singapore Pte<br>Ltd.<br><br>ISBN 978-981-13-6347-4           | 2019                |
| 3.            | Book Chapter:<br>Energy-Aware Prediction-Based Load Balancing Approach with VM Migration for the Cloud Environment in<br>Data, Engineering and Applications<br>Volume 2 | Springer Nature<br>Singapore Pvt<br>Ltd.<br><br>ISBN 978-981-13-6350-4           | 2019                |

| Summer Training Program/Workshop Organized |                                        |                                                                                                     |                   |                   |
|--------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------|-------------------|
| S.No.                                      | Post held<br>(coordinator or convener) | Details of<br>WS/FDP /STC                                                                           | Duration          |                   |
| 1.                                         | Coordinator                            | Information Security-Current Trends and Future Perspectives (Under ISEA Project-II)                 | 15/03/2021        | 19/03/2021        |
| 2.                                         | Coordinator                            | Short Term Training Program on Cyber Security and Digital Forensics (Under ISEA Project-II)         | 23/11/2020        | 27/11/2020        |
| 3.                                         | Coordinator                            | Short Term Training Program on Information Security and Digital Forensics (STTP-ISDF-2018)          | 16<br>Apr<br>2018 | 20<br>Apr<br>2018 |
| 4.                                         | Coordinator                            | Workshop on Cyber Security Threats and Forensics under ISEA Project phase II Govt of India          | 23<br>Mar<br>2017 | 24<br>Mar<br>2017 |
| 5.                                         | Coordinator                            | Workshop on Cyber Forensics: Fundamentals and Advancement under ISEA Project phase II Govt of India | 27<br>Jan<br>2016 | 29<br>Jan<br>2016 |
| 6.                                         | Coordinator                            | Short Term Training Program on Network Forensics under ISEA Project Govt of India                   | 05<br>Mar<br>2014 | 06<br>Mar<br>2014 |
| 7.                                         | Coordinator                            | Workshop on Network Enumeration and Security(WNES-2014) Under TEQIP-II                              | 20<br>Jan<br>2014 | 22<br>Jan<br>2014 |
| 8.                                         | Coordinator                            | RTCIT-2010                                                                                          | 19-03-<br>2010    | 20-03-<br>2010    |
| 9.                                         | Coordinator                            | Short Term Training Program on Information Security (STTP-IS-2007)                                  | 10 Dec<br>-2007   | 14<br>Dec<br>2007 |

| Establishment of New Lab(s) |                          |              |                              |
|-----------------------------|--------------------------|--------------|------------------------------|
| S.No.                       | Name of Laboratory       | Organization | Year of Establishment of Lab |
| 1.                          | Vision lab               | MANIT Bhopal | 2016                         |
| 2.                          | Cyber forensic lab       | MANIT Bhopal | 2016                         |
| 3.                          | DBMS and Data Mining Lab | MANIT Bhopal | 2008                         |

| S.No. | Name of the Student        | Topic                                                                                                                    | Year of Award    | Co-Supervisor (if any)   |
|-------|----------------------------|--------------------------------------------------------------------------------------------------------------------------|------------------|--------------------------|
| 1.    | Mr. Rajeev Kumar Gupta     | Cloud server optimization with load balancing and green computing techniques using dynamic compare and balance algorithm | Awarded          |                          |
| 2.    | Mr. Sandeep K. Raghuvarshi | Recommendation Systems: Techniques, Challenges, Application and Evaluation                                               | Awarded          |                          |
| 3.    | Mr. Rajesh Wadhvani        | Query Based Extractive Text Summarization for Multiple Documents                                                         | Awarded          |                          |
| 4.    | Mrs. Sri Khetwat Saritha   | Identification and Classification of Comparatives and Emotions in Text Documents                                         | Awarded          |                          |
| 5.    | Ms Bharti Dongre           | Data Driven Approaches for Power Curve Modelling to Estimate Wind Turbine Power                                          | Awarded          |                          |
| 6.    | Mr. Harish Baraithiya      | Cloud Computing                                                                                                          | Awarded          |                          |
| 7.    | Mrs. Anupama Jain          | Information security                                                                                                     | Awarded          |                          |
| 8.    | Mr Gaurav Shrivastav       | Computer Networking                                                                                                      | Awarded          | Late Dr. Praveen Kaushik |
| 9.    | Mrs. Sonika Shrivastava    | Cloud Computing                                                                                                          | Awarded          |                          |
| 10.   | Mr. Chandra Prakash Singer | Image Cryptography                                                                                                       | Thesis submitted | Dr Jyoti Bharti          |
| 11.   | Mrs Rashmi Lodhi           | Cloud Computing                                                                                                          | Thesis submitted |                          |
| 12.   | Mr. Rijvan Beg             | Malware Forensics                                                                                                        | Pursuing         | Dr Deepak Singh Tomar    |
| 13.   | Mr. Lokesh Yadav           | Malware Analysis                                                                                                         | Pursuing         | Dr Deepak Singh Tomar    |
| 14.   | Mr. Yogesh Sharma          | Digital Forensics                                                                                                        | Pursuing         | Dr Deepak Singh Tomar    |
| 15.   | Mr. Rajeev Kumar Gupta     | Cyber Security                                                                                                           | Pursuing         | Dr Deepak Singh Tomar    |
| 16.   | Mrs. Neelima Agaraiya      | Data Mining & Information Retrieval                                                                                      | Pursuing         | Dr Deepak Singh Tomar    |

| PATENTS PUBLISHED/GRANTED |                                                                                            |                     |                  |
|---------------------------|--------------------------------------------------------------------------------------------|---------------------|------------------|
| S.No.                     | Title                                                                                      | Date of Publication | Registration No. |
| 1.                        | A System of intelligent attachment to control wheelchair by motions based on human gesture | 09/04/2021          | 202121014369A    |

| PUBLICATIONS (Journals/Conferences) |                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.                                  | RK Gupta, P Gautam, RK Pateriya, P Verma, Y Sahu , COVID-19 lesion segmentation and classification of lung CTs using GMM-based hidden Markov random field and ResNet 18, International Journal of Fuzzy System Applications, Volume 11, Issue 2, Pages 1-21.                                                                                                                                            |
| 2.                                  | P Verma, JG Breslin, D O'Shea, RK Pateriya, A Stacked Ensemble Method with Adaptive Attribute Selection to Detect DDoS Attack in Cloud-Assisted WBAN, International Conference on Machine Learning, Image Processing, Network Security and Data Sciences. MIND 2022 Volume 1763                                                                                                                         |
| 3.                                  | Verma, P., Kowsik, A.R.K., Pateriya, R.K. et al. A Stacked Ensemble Approach to Generalize the Classifier Prediction for the Detection of DDoS Attack in Cloud Network. Mobile Netw Appl (2023). <a href="https://doi.org/10.1007/s11036-023-02225-4">https://doi.org/10.1007/s11036-023-02225-4</a>                                                                                                    |
| 4.                                  | A. R. K. Kowsik, R. K. Pateriya and P. Verma, "A Deep Learning based Hybrid Approach for DDoS Detection in Cloud Computing Environment," <i>2021 IEEE 4th International Conference on Computing, Power and Communication Technologies (GUCON)</i> , Kuala Lumpur, Malaysia, 2021, pp. 1-6, doi: 10.1109/GUCON50781.2021.9573817.                                                                        |
| 5.                                  | Shende, Omkar, et al. "CEBM: Collaborative Ensemble Blockchain Model for Intrusion Detection in IoT Environment." (2021).                                                                                                                                                                                                                                                                               |
| 6.                                  | Pateriya RK, Verma P, Suhana P. An Ensemble Xgboost Approach for the Detection of Cyber-Attacks in the Industrial IoT Domain. In Big Data Analytics in Fog-Enabled IoT Networks 2023 Apr 19 (pp. 125-140). CRC Press.                                                                                                                                                                                   |
| 7.                                  | R. Beg, R. K. Pateriya and D. S. Tomar, "ACMFNN: A Novel Design of an Augmented Convolutional Model for Intelligent Cross-Domain Malware Localization via Forensic Neural Networks," in <i>IEEE Access</i> , vol. 11, pp. 87945-87957, 2023, doi: 10.1109/ACCESS.2023.3305274.                                                                                                                          |
| 8.                                  | Sahu, Yatendra, et al. "A CNN-SVM based computer aided diagnosis of breast Cancer using histogram K-means segmentation technique." <i>Multimedia Tools and Applications</i> 82.9 (2023): 14055-14075. (SCI)                                                                                                                                                                                             |
| 9.                                  | P. K. Patidar, D. S. Tomar, R. K. Pateriya and Y. K. Sharma, "A Threat modeling approach to analyze and mitigate WhatsApp attacks: A Review," <i>2023 IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS)</i> , Bhopal, India, 2023, pp. 1-6, doi: 10.1109/SCEECS57921.2023.10062984. (IEEE Conference).                                                   |
| 10.                                 | Tomar, D.S., Ahirwal, M.K., Semwal, V.B., Soni, V. (eds) Machine Learning, Image Processing, Network Security and Data Sciences. MIND 2022. Communications in Computer and Information Science, vol 1763. Springer, Cham. ( Machine Learning, Image Processing, Network Security and Data Sciences: 4th International Conference, MIND 2022, Virtual Event, January 19–20, 2023, Proceedings, Part II). |
| 11.                                 | Yadav, A.K., Shukla, S.S.P., Jain, V.K., Pateriya, R.K. (2022). Implementation of SARSA-                                                                                                                                                                                                                                                                                                                |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | HMM Technique for Face Recognition. In: Khare, N., Tomar, D.S., Ahirwal, M.K., Semwal, V.B., Soni, V. (eds) Machine Learning, Image Processing, Network Security and Data Sciences. MIND 2022. Communications in Computer and Information Science, vol 1763. Springer, Cham. (Machine Learning, Image Processing, Network Security and Data Sciences: 4th International Conference, MIND 2022, Virtual Event, January 19–20, 2023, Proceedings, Part II). |
| 12. | Singh, R., Pateriya, R.K. (2023). Data Clustering Approach on the Basis of Data Sensitivity for Implementation of Secure Cloud Computing Environment. In: Doriya, R., Soni, B., Shukla, A., Gao, XZ. (eds) Machine Learning, Image Processing, Network Security and Data Sciences. Lecture Notes in Electrical Engineering, vol 946. Springer, Singapore. (Conference).                                                                                   |
| 13. | Imteyaz Mohsin, Md, Jyoti Bharti, and R. K. Pateriya. "Improved Bio-hashing Fingerprint Security Using Modified Arnold's Cat Map." Artificial Intelligence and Sustainable Computing: Proceedings of ICSISCET 2021. Singapore: Springer Nature Singapore, 2022. 159-173. (Conference).                                                                                                                                                                    |
| 14. | Gupta, Rajeev Kumar, et al. "COVID-19 lesion segmentation and classification of lung CTs using GMM-based hidden Markov random field and ResNet 18." International Journal of Fuzzy System Applications (IJFSA) 11.2 (2022): 1-21. (SCOPUS).                                                                                                                                                                                                               |
| 15. | Pateriya, Rajesh Kumar, Priyanka Verma, and Dharam Singh. "MAD-SE: Adaptive Threshold-Based Stack Ensemble Approach For The Detection Of Ddos Attack In Cloud." Suranaree Journal of Science & Technology 29.5 (2022).                                                                                                                                                                                                                                    |
| 16. | Kumar, Deepak, R. K. Pateriya, Rajeev Kumar Gupta, Vasudev Dehalwar, and Ashutosh Sharma. "DDoS Detection using Deep Learning." Procedia Computer Science 218 (2023): 2420-2429. (SCOPUS).                                                                                                                                                                                                                                                                |
| 17. | Verma, P., Breslin, J.G., O'Shea, D., Pateriya, R.K. (2022). A Stacked Ensemble Method with Adaptive Attribute Selection to Detect DDoS Attack in Cloud-Assisted WBAN. In: Khare, N.,                                                                                                                                                                                                                                                                     |
| 18. | Uparkar, Om, et al. "Vision Transformer Outperforms Deep Convolutional Neural Network-based Model in Classifying X-ray Images." Procedia Computer Science 218 (2023): 2338-2349. (SCOPUS).                                                                                                                                                                                                                                                                |
| 19. | Gupta, Rajeev Kumar, et al. "Improving collaborative intrusion detection system using blockchain and pluggable authentication modules for sustainable Smart City." Sustainability 15.3 (2023): 2133. (SCIE).                                                                                                                                                                                                                                              |
| 20. | Gaurav Kumar Shrivastava, Rajesh Kumar Pateriya, An efficient focused crawler using LSTM-CNN based deep learning, International Journal of System Assurance Engineering and Management, 14, 391–407 (2023). <a href="https://doi.org/10.1007/s13198-022-01808-w">https://doi.org/10.1007/s13198-022-01808-w</a>                                                                                                                                           |
| 21. | Rajeev Kumar Gupta, R.K. Pateriya , A Deep Neural Network for Detecting Coronavirus Disease using Chest X-Ray Images. International Journal of Healthcare Information Systems and Informatics(2022) Page 27 Volume 17, Issue 2, 2022.                                                                                                                                                                                                                     |
| 22. | Shende, O., Pateriya, R.K. & Verma, P. A N-binary Classification and Grouping-based Approach to Improve the Performance of Anomaly Detection. Arab J Sci Eng (2021). SCIE                                                                                                                                                                                                                                                                                 |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | Springer                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 23. | Sandeep Kumar Raghuwanshi, Rajesh Kumar Pateriya, Accelerated Singular Value Decomposition (ASVD) using momentum based Gradient Descent Optimization, Journal of King Saud University - Computer and Information Sciences, Volume 33, Issue 4, 2021, Pages 447-452, ISSN 1319-1578, SCIE and Scopus, Elsevier Science Direct.                                                                                                                                |
| 24. | Chandra Prakash Singar, Jyoti Bharti and R.K. Pateriya, "Key Generation Using Feature Based Finite Element Method" International Journal on Emerging Technologies, 11(3): 634-638 (2020), Scopus Indexed.                                                                                                                                                                                                                                                    |
| 25. | Rajdeep Singh, Dr. R. K. Pateriya, An Efficient Mechanism for Data handling and Management in Cloud Computing Environment, Solid State Technology, Volume: 63 Issue: 5 Publication Year: 2020, Scopus                                                                                                                                                                                                                                                        |
| 26. | Rajdeep Singh, Dr. R. K. Pateriya An Efficient Data Security Mechanism Based on Data Groups in Cloud Computing Environment, Solid State Technology, Vol. 64 No. 2 (2021), Scopus                                                                                                                                                                                                                                                                             |
| 27. | Rajeev Kumar Gupta, Akshay Rameshbhai Gupta, Nikhlesh Pathik, R. K. Pateriya, Prem Kumar Chaurasiya, Upendra Rakjak, Tikendra Nath Verma, Abeer M. Alosaimi & Mahmoud Ali. Hussein, Novel Deep Neural Network Technique for Detecting Environmental Effect of COVID-19, Energy sources, Part A: Recovery, Utilization, and Environmental Effects. (2021), Page 1-19, ISSN: 2278-3075, Volume-8 Issue-4, February 2021, SCIE, Scopus Taylor and Francis group |
| 28. | Shrivastava S, Pateriya RK. Data encoding and cost optimised distribution for efficient and secure storage in cloud federation. International Journal of Information and Computer Security. 2020;13(3-4):396-410.                                                                                                                                                                                                                                            |
| 29. | Gupta RK, Pateriya RK. Balance Resource Utilization (BRU) Approach for the Dynamic Load Balancing in Cloud Environment by using AR Prediction Model. Journal of Organizational and End User Computing (JOEUC). 2017 Oct 1;29(4):24-50.                                                                                                                                                                                                                       |
| 30. | Raghuwanshi S, Jain P, Pateria RK. AN EVALUATED COMPARISON OF SSL AND SET. Journal of Intelligence Systems. 2010 Jan 1;1(1):7.                                                                                                                                                                                                                                                                                                                               |
| 31. | Rajeev Kumar Gupta and R. K. Pateriya, "Enhancing the Security of AES Algorithm Using Quantum Three-Pass Protocol", International Journal of Security and Its Applications (IJSIA), (Scopus Index) Vol.11, Issue No.1, pp. 219-232, January 2017.                                                                                                                                                                                                            |
| 32. | Shrivastava S, Pateriya RK. Efficient storage management framework for software defined cloud. International Journal of Internet Technology and Secured Transactions. 2017;7(4):317-29.                                                                                                                                                                                                                                                                      |
| 33. | Raghuwanshi SK, Pateriya RK. Recommendation systems: techniques, challenges, application, and evaluation. In Soft Computing for Problem Solving 2019 (pp. 151-164). Springer, Singapore.                                                                                                                                                                                                                                                                     |
| 34. | Wadhvani R, Pateriya RK, Gyanchandani M, Shukla S. RIN-Sum: A System for Query-Specific Multi-Document Extractive Summarization. RIN. 2017;8(3).                                                                                                                                                                                                                                                                                                             |

|     |                                                                                                                                                                                                             |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 35. | Bharti J, Pateriya RK, Shukla S. Block Wise Data Hiding with Auxiliary Matrix. Int. J. Adv. Comput. Sci. Appl. 2017 Mar 1;8:128-35.                                                                         |
| 36. | Shere, Rohit, Sonika Shrivastava, and R. K. Pateriya. "CloudSim Framework for Federation of identity management in Cloud Computing." (2017).                                                                |
| 37. | Verma P, Shrivastava S, Pateriya RK. Enhancing Load Balancing in Cloud Computing by Ant Colony Optimization Method. International Journal of Computer Engineering In Research Trends. 2017 Jun;4(6):277-84. |
| 38. | Lodhi, R. S., &Pateriya, R. K. (2019). Fuzzy Based Algorithm for Cloud Resource Management and Task Scheduling..                                                                                            |
| 39. | Laxmi Kurmi and Dr. R.K. Pateriya Secure Database Management and Privacy Preserving in Cloud Server VOLUME: 06 ISSUE: 05 MAY 2019                                                                           |
| 40. | Singh, Rajdeep, and R. K. Pateriya. "An Efficient Data Security Mechanism Based on Data Groups in Cloud Computing Environment." (2021).                                                                     |
| 41. | Pateriya RK. An Efficient Mechanism for Data handling and Management in Cloud Computing Environment. Solid State Technology. 2020 Dec 22;63(5):7856-63.                                                     |
| 42. | Rathor VS, Pateriya RK, Gupta RK. An Efficient Virtual Machine Scheduling Technique in Cloud Computing Environment. International Journal of Modern Education & Computer Science. 2015 Mar 1;7(3).          |
| 43. | Singh S, Pateriya RK. A survey on various stemming algorithms. International Journal of Computer Engineering in Research Trends. 2015 May;2(5):310-5.                                                       |
| 44. | Singh, Anurag Kumar, and R. K. Pateriya. "Analysis of crucial oil gas and liquid sensor statistics and production forecasting using IIOT and Autoregressive models." (2019).                                |
| 45. | Kumar P, Pateriya RK. Enhanced Intrusion Detection System for Input Validation Attacks in Web Application. International Journal of Computer Science Issues (IJCSI). 2013;10(1):435.                        |
| 46. | Baraithiya H, Pateriya RK. Classifiers ensemble for fake review detection. Int. J. Innov. Technol. Explor. Eng. 2019;8(4):730-6.                                                                            |
| 47. | Wadhvani R, Pateriya RK, Roy D. Impact of Part-Of-Speech Based Feature Selection in Text Summarization. International Journal of Computer Science and Information Security. 2013 Oct 1;11(10):54.           |
| 48. | Sharma, A., &Pateriya, R. K. Removing Salt and Pepper Noise using Modified Decision-Based Approach with Boundary Discrimination. VOLUME 2, ISSUE 7, JULY 2015, PP 411-420                                   |
| 49. | Singh, Sundar, and R. K. Pateriya. "Enhanced Suffix Stripping Algorithm to Improve Information Retrieval." (2015).                                                                                          |
| 50. | Gupta RK. A complete theoretical review on virtual machine migration in cloud environment. International Journal of Cloud Computing and Services Science. 2014 May 1;3(3):172.                              |
| 51. | Sharma A, Pateriya RK. A Survey on various Image Filtering Approaches to remove Impulse Noise. International Journal of Computer Engineering in Research Trends. 2015;2(5):322-8.                           |
| 52. | Gupta RK, Pateriya RK. Balance Resource Utilization (BRU) Approach for the Dynamic Load                                                                                                                     |

|     |                                                                                                                                                                                                                                                                                   |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | Balancing in Cloud Environment by using AR Prediction Model. Journal of Organizational and End User Computing (JOEUC). 2017 Oct 1;29(4):24-50.                                                                                                                                    |
| 53. | Gupta RK, Pateriya RK. Survey on virtual machine placement techniques in cloud computing environment. International Journal on Cloud Computing: Services and Architecture (IJCCSA). 2014 Aug;4(4):1-7.                                                                            |
| 54. | Sahu Y, Pateriya RK. Cloud computing overview with load balancing techniques. International Journal of Computer Applications. 2013 Jan 1;65(24).                                                                                                                                  |
| 55. | Khan ZA, Pateriya RK. Multiple pattern string matching methodologies: a comparative analysis. International Journal of Scientific and Research Publications. 2012 Jul;2(7):1-7.                                                                                                   |
| 56. | Raghuwanshi, Sandeep Kumar, and Rajesh Kumar Pateriya. "Accelerated singular value decomposition (asvd) using momentum based gradient descent optimization." Journal of King Saud University-Computer and Information Sciences (2018).                                            |
| 57. | Mehra T, Pateriya RK. Cyber Security Considerations for Advanced Metering Infrastructure in Smart Grid. Int. J. Sci. Engg. Res. 4 (8). 2013 Aug:939-44.                                                                                                                           |
| 58. | Dongre, Bharti, and Rajesh K. Pateriya. "Power curve model classification to estimate wind turbine power output." Wind Engineering 43, no. 3 (2019): 213-224.                                                                                                                     |
| 59. | Shrivastava S, Pateriya RK. Data encoding and cost optimised distribution for efficient and secure storage in cloud federation. International Journal of Information and Computer Security. 2020;13(3-4):396-410.                                                                 |
| 60. | Rathor VS, Pateriya RK, Gupta RK. Survey on load balancing through virtual machine scheduling in cloud computing environment. International Journal of Cloud Computing and Services Science. 2014;3(1):37.                                                                        |
| 61. | Pateriya RK, Sharma S. An ultralightweight mutual authentication protocol for low cost RFID tags. Int. J. Comput. Appl. 2011 Jul;25:28-35.                                                                                                                                        |
| 62. | Sahu Y, Pateriya RK, Gupta RK. Cloud server optimization with load balancing and green computing techniques using dynamic compare and balance algorithm. In2013 5th International Conference and Computational Intelligence and Communication Networks 2013 Sep 27 (pp. 527-531). |
| 63. | Pateriya RK, Sharma S. The evolution of RFID security and privacy: A research survey. In2011 International Conference on Communication Systems and Network Technologies 2011 Jun 3 (pp. 115-119).                                                                                 |
| 64. | Pateriya RK, Vasudevan S. Elliptic curve cryptography in constrained environments: a review. In2011 International Conference on Communication Systems and Network Technologies 2011 Jun 3 (pp. 120-124).                                                                          |
| 65. | Kumar P, Pateriya RK. A survey on SQL injection attacks, detection and prevention techniques. In2012 Third International Conference on Computing, Communication and Networking Technologies (ICCCNT'12) 2012 Jul 26 (pp. 1-5).                                                    |
| 66. | Pateriya RK. Web server load management with adaptive SSL and admission control mechanism. In2012 7th International Conference on Computer Science & Education (ICCSE)                                                                                                            |

|     |                                                                                                                                                                                                                                                                                          |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | 2012 Jul 14 (pp. 1178-1183).                                                                                                                                                                                                                                                             |
| 67. | Kumar P, Pateriya RK. DWVP: detection of web application vulnerabilities using parameters of web form. In Proceedings of joint international conferences on CIIT 2013.                                                                                                                   |
| 68. | Saritha SK, Pateriya RK. Rule-based shallow parsing to identify comparative sentences from text documents. In Emerging Research in Computing, Information, Communication and Applications 2016 (pp. 355-365). Springer, Singapore.                                                       |
| 69. | Sonika Shrivastava, R. K. Pateriya Storage Management interface for Software Defined Cloud International conference on Innovative System (ICIS-2016) 16-17 December 2016, Bangalore.                                                                                                     |
| 70. | Prankit Namdeo, Sonika Shrivastava, R. K. Pateriya A review on cyber bullying detection in social Networking International Conference on Information Communication & computing Technology (ICCICT-2017) 13-May-2017, New Delhi.                                                          |
| 71. | Shere R, Srivastava S, Pateriya RK. A review of federated identity management of OpenStack cloud. In 2017 International Conference on Recent Innovations in Signal processing and Embedded Systems (RISE) 2017 Oct 27 (pp. 516-520).                                                     |
| 72. | Raghuwanshi S, Pateria RK, Singh RP. A new protocol model for verification of payment order information integrity in online E payment system. In 2009 World Congress on Nature & Biologically Inspired Computing (NaBIC) 2009 Dec 9 (pp. 1665-1668).                                     |
| 73. | Patel D, Gupta RK, Pateriya RK. Energy-aware prediction-based load balancing approach with VM migration for the cloud environment. In Data, engineering and applications 2019 (pp. 59-74). Springer, Singapore.                                                                          |
| 74. | Raghuwanshi, S.K. and Pateriya, R.K., 2019. Collaborative filtering techniques in recommendation systems. In Data, Engineering and Applications (pp. 11-21). Springer, Singapore.                                                                                                        |
| 75. | Pateriya RK, Sharma S. The evolution of RFID security and privacy: A research survey. In 2011 International Conference on Communication Systems and Network Technologies 2011 Jun 3 (pp. 115-119).                                                                                       |
| 76. | Sahu Y, Pateriya RK, Gupta RK. Cloud server optimization with load balancing and green computing techniques using dynamic compare and balance algorithm. In 2013 5th International Conference and Computational Intelligence and Communication Networks 2013 Sep 27 (pp. 527-531). IEEE. |
| 77. | Samaiya N, Raghuwanshi SK, Pateriya RK. Shilling attack detection in recommender system using PCA and SVM. In Emerging technologies in data mining and information security 2019 (pp. 629-637). Springer, Singapore                                                                      |